Power Bl DAX Formula

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POWER BI

- ► Power BI is one of the most robust and powerful business intelligence tools.
- ▶ One of the most powerful features of Power BI is DAX (Data Analysis Expressions), which is a formula expression designed for advanced data analysis.
- ► DAX formulas contain functions, operators, statements, and more.

- ▶ **DAX** formulas are made up of 3 core components :
 - ▶ **Syntax** Proper DAX syntax is made up of a variety of elements, some of which are common to all formulas.
 - ► **Functions** DAX functions are predefined formulas that take some parameters and perform a specific calculation.
 - ► **Context** DAX uses context to determine which rows should be used to perform a calculation.

Where are DAX Formulas Used in Power BI?

There are three ways you can use DAX formulas in Power BI:

- ► **Calculated Tables** These calculations will add an additional table to the report based on a formula.
- ► Calculated Columns These calculations will add an additional column to a table based on a formula. These columns are treated like any other field in the table.
- ► **Measures** These calculations will add a summary or aggregated measure to a table based on a formula.

Arithmetic Operators

- **▶** *Addition* (+) :
 - ► Total Amount = Sales[Quantity] + Sales[Discount]
- **▶** Subtraction (-):
 - Net Sales = Sales[SalesAmount] Sales[Discount]
- ► Multiplication(*):
 - Revenue = Sales[Quantity] * Sales[Price]
- **▶** *Division (/):*
 - Profit Margin = Sales[Profit] / Sales[SalesAmount]

Aggregation Function

- **► SUM:**
 - ► Total Sales = SUM(Sales[SalesAmount])
- **► AVERAGE**:
 - Avg Sales = AVERAGE (Sales[SalesAmount])
- ► MIN:
 - Min Sale = MIN(Sales[SalesAmount])
- ► MAX:
 - Max Sale = MAX(Sales[SalesAmount])
- **► COUNT:**
 - ► Total Rows = COUNT(Sales[SalesAmount])

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Thank You

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